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Higher and Postgraduate Educational Programs

☐Project EP ☐Participant of project EP

Date of registration in the Registry

21.08.2019

Registration number

8D01500033

Date of EP passport updating

08.06.2026 14:39

Field of education

8D01 Pedagogical sciences

Direction of personnel training

8D015 Training of teachers in Natural science subjects

Group of educational programs

D010 Teacher training in mathematics

Educational program

8D01501 Mathematics

EP purpose

Training of competitive, competent scientific and pedagogical personnel possessing professional and scientific co their implementation in practical and scientific activities to meet the needs of science, education and production in

EP type

Acting EP

Level on NQF

8

Level on SQF

8

EP distinctive features

No

Language of education

multilingual

Professional Standard for EP

Exists

№	Name of professional standard
1	Professional standard: Teacher (faculty) of higher and (or) postgraduate education organizations

Professional standards (career standards)

Professional standard has been used at developing EP ☒

Professional standard №1

Professional standard

Профессиональный стандарт: для пед



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CCEA

Professions

Profession №1

Profession

Преподаватель, ассистент профессор

Уровень по ОРК

8

Labor functions

Обучение

Взаимодействие со стейкхолдерами высшего и послевузовск

Социализация обучающейся молодежи

Проведение научн

Осуществление научно-методической работы

Volume of the credits

180

Degree to be conferred

Doctorate

Period of study

3

Date of approval EP on the Academic Council

27.04.2026

☒Existence of the annex to the license for the direction of personnel training

The license number on the direction of training

KZ49LAM00007465

☐The training format is online

☒EP accreditation existence

Atlas of new professions

не предусмотрено

Regional standard

не предусмотрено

The formed educational outcomes

№	Educational outcome	Code	Reflects the labor function
1	To synthesize new knowledge and skills, to form information skills for	ON1	ОбучениеСоциализация обучающейся молодежи
2	To organize scientific research, apply the results of research when writing	ON2	Проведение научных исследованийВзаимодействие со стейкхолдерами высшего и послевуз
3	To conduct a comparative analysis of various scientific theories and ideas,	ON3	Проведение научных исследованийОсуществление научно-методической работы
4	Analyze and implement the developments of the educational	ON4	Осуществление научно-методической работы
5	Analyze the results of scientific research, apply them to solving	ON5	Проведение научных исследованийОсуществление научно-методической работы

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	  ЕДИНАЯ ПЛАТФОРМА ВЫСШЕГО ОБРАЗОВАНИЯ	English 	
6	To develop mathematical models of objects with an implementation	ON6	Осуществление научно-методической работы Взаимодействие со стейкхолдерами высшего и послевуз
7	To substantiate and test the methodology of a systematic	ON7	Осуществление научно-методической работы
8	Analyze and synthesize observed facts and phenomena by	ON8	Обучение Социализация обучающейся молодежи

Data on disciplines

Nº	Name of discipline	Short description of discipline	Cycle
1	Academic Writing	Considers the theoretical foundations of the research methodology, standards for the presentation of research results and the design of academic texts, features of communication and scientific style, issues of scientific substantiation. It contains practical recommendations for writing scientific papers.	BD
2	Methods of Scientific Research	The study of this discipline allows doctoral students to form ideas about the methods of scientific research, the formation of research competence and their willingness to apply the acquired knowledge and skills in the organization of their own scientific research and the organization of research work in their professional activities.	BD
3	Application of Artificial Intelligence for Developing Interdisciplinary Connections in Mathematics	This course aims to provide an understanding of the role of AI as a tool for integrating mathematical knowledge with other fields such as physics, computer science, biology, economics, and engineering. Students will explore the concept of interdisciplinary analysis, principles of processing and synthesizing data from various subject areas, and the capabilities of neural network models and machine learning algorithms for uncovering hidden patterns.	BD
4	Current trends in improving methods of teaching mathematical disciplines at the university	This discipline allows you to study the methodological aspects of improving the training of a mathematics teacher in a pedagogical university, as well as the requirements for lectures on the methodology of teaching mathematics in the context of improving methodological training and the methodology of practical classes.	BD
5	Group Analysis of Differential Equations	The study of this discipline allows doctoral students to solve applied problems using the theory of group analysis of differential equations, to engage in research activities in the field of the theory of differential equations. In the process of teaching doctoral students, the technology of the collective method of teaching is used.	PD
6	Quantitative and Qualitative Data Analysis	Studying this discipline allows you to form sufficient knowledge, skills, and ideas about the specifics of quantitative and qualitative research approaches performed using statistical methods, as well as skills in applying these methods in professional activities.	PD
7	Mathematical Methods for Processing the Results of a Pedagogical Experiment	The study of this discipline allows you to study and apply modern methods and technologies of organizing educational activities, diagnostics and evaluation of the quality of the educational process in various educational programs.	PD